ETC Release Note
Eos Family Lighting Control Software

Product Line: Eos Family Lighting Control
Description: Version 2.8.0 System Software
Engineering Change Master (ECM): 500020353
Effective Date: 2019-01-03

Purpose

The purpose of 2.8 is a full rewrite to the fixture editor, including parameter search functions, better mode and lamp controls assignments. Version 2.8 also provides improved relative effect editing tools, storing effects in cue parts, Limited Expanded Magic sheet settings, a PSD option to suppress follow/hang indicators, a prompt when opening a new or existing showfile when there are unsaved changes in the current showfile, the ability to direct UDP and OSC commands to multiple destinations, and improved best spectral match controls.

Version 2.8 and an accompanying firmware update for the 94-way keypad also address an issue with potential missed keystrokes when typing very quickly.

It is recommended that users update to this software and firmware at the earliest time possible.

For any questions relating to the contents of this release or the behavior of this software, please contact ETC Technical Services at the office nearest you. A list of ETC offices is given at the bottom of this page.

Availability

You may obtain this release of software by downloading it from the Downloads section of the ETC website, etcconnect.com.

Documentation

• For Eos Ti, Eos, Gio, Gio @ 5, Ion Xe, and Element 2:
  - Eos Family v2.8.0 Operations Manual Revision A
• For Ion:
  - Ion v2.8.0 Operations Manual Revision A
• For Element:
  - Element v2.8.0 User Manual Revision A

For consoles running Windows 7, the user manual is available for viewing on Tab 100. For devices using Windows XP or Mac operating systems, the user manual can either be viewed on the ETC website, or a pdf version can be downloaded.

Please keep this release note with your user manual for descriptions of the newest features, changes and bug fixes in Eos.

ETC manuals can be downloaded free of charge from ETC’s website at etcconnect.com. They are available in portable document format (pdf), and viewable with Adobe® Acrobat® Reader™ v8.x and later.

Affected Products of This Release

The following Eos Family products are affected by this software release:

• Eos Titanium
ETC Release Note
Eos Family Software v2.8.0

- Eos
- Gio
- Gio @ 5
- Ion Xe
- Ion Xe 20
- Ion
- Element 2
- Element
- Eos Remote Processor Unit (RPU)
- Eos Remote Processor Unit 3 (RPU3)
- Ion Xe Remote Processor Unit (RPU)
- Ion Remote Processor Unit (RPU)
- Net3 Remote Video Interface (RVI)
- Net3 Remote Video Interface 3 (RVI3)
- ETCnomad, (PC & Mac Client/Offline)
- ETCnomad Puck

Key Enhancements in v2.8.0

- New fixture editor
- Improved relative effect editing tools
- Ability to store effects in cue parts
- Limited expanded magic sheet
- A PSD option to suppress follow/hang indicators
- Unsaved changes in the current showfile warning
- Ability to direct UDP and OSC commands to multiple destinations
- Improved “Best Spectral Match” controls
- Bug Fixes

Key Enhancements in v2.7.4

- Bug Fixes

Issues Corrected in v2.8.0

EOS-48252 Eos will load illegal channel numbers if they are sufficiently large
EOS-48219 Effects sometimes do not track properly after deleting a range of cues then reapplying the effect
EOS-48166 Pressing the Mode button for a parameter while changing encoder pages can cause the system to ignore encoder movement on the other pages
EOS-48164 Eos does not write defaults for Local I/O Contact Closures and Relays and instead defaults to group 0, which does not work
EOS-48163 Local I/O: Contact closures are controlled by the Relay Group ID rather than the Contact Closure Group ID
EOS-48154 Show Control: switching RX Source ID causes Eos to replay the last MSC command
EOS-48137 A startup macro that changes a patch curve can cause a crash
EOS-48124 Update required version in shell for high speed 94-key keyboard firmware
EOS-48117 If an MC fixture is saved in 2.6, you cannot use Update Profile to restore the fixture in 2.8
EOS-48108 Cherry keyboard: Rapid entry can lead to out of order key hits
EOS-48085 Encoder Display: Parameters with multiple slots and no modes will always show the first slot under the parameter text, instead this range label should be suppressed
EOS-48076 Softkeys: Copy To softkey changes
EOS-48074 Misconfigured MIDI With Matching Network Rx & Tx Causes Log Warnings from ACN
EOS-48066 Output Viewer Doesn’t Support Selecting Addresses Associated With Master Cell
EOS-48031 [chan 1 preset 1] [chan 2 preset enter] should autoinsert preset 1
EOS-48020 Fixture Editor: Add support for default ranges for new parameters
Issues Corrected in v2.8.0 [Continued]

- EOS-48006  Fixture Editor: Add tools to make editing a mode parameter easier
- EOS-48004  Multicell: By Type cell palettes not working on cells of channel number 10000 and higher
- EOS-48001  Fixture Editor advisories should be closable by pressing Enter
- EOS-47999  Fixture Editor: Footprint for cells in the Fixture list should show the number of addresses used, not highest number
- EOS-47991  [Offset Chans Per Group] does not apply correctly when recalling presets and palettes
- EOS-47984  Possible Crash on Long CEM3 Rack Names
- EOS-47983  Setup: Emergency Mark isn’t being copied across users
- EOS-47981  Improve Relative Effects Editor
- EOS-47978  Fixture Editor: Add ‘+’ to lamp controls and tie the control -> levels sections together more
- EOS-47971  Fixture Editor: Implement Label Wizard (make % or degree symbol available to ranges)
- EOS-47970  About display: Channels Inhibited by Palette Fader, display a sub number instead of a fader number
- EOS-47961  Crash when selecting [cells only] plus [minus cells] then using Offset Reverse or Random
- EOS-47951  MC reverse cell selection: Channel List is Empty
- EOS-47945  Group offsets larger than 10 with non-contiguous channel selections greater than 10 are incorrect
- EOS-47943  Partitioned Control: The color picker in ML controls incorrectly allows setting color data for channels outside a user’s active partition
- EOS-47941  Pixel Mapping: Multi part channels only output part 1 when used in pixel map
- EOS-47934  CSV: allow commas in text field, by encapsulating filed in quotations
- EOS-47932  Select Active clearing and resetting Select Last history
- EOS-47931  When console language set to “français - france,” “Conv. en val absolue” causes syntax error
- EOS-47929  Setup: Reorganize PDF and Face Panel section
- EOS-47927  PSD: Cue time column has purple background after [cue x time enter]
- EOS-47920  Multicell: Cue Curve stops virtual intensity on master from mastering cells
- EOS-47915  Multicell: Patch Curves on master channel do not affect cells
- EOS-47907  Multi Cell Macro selects the Channel Number as the Cell instead
- EOS-47899  Fixture Editor - Delete Unused does not handle multicell cells properly
- EOS-47891  Fixture Editor: Implement Label Wizard (make % or degree symbol available to ranges)
- EOS-47890  Channel Table View: Absolute value is displayed instead of preset number when column is collapsed and [show reference labels] is enabled
- EOS-47887  Fixture Editor: Enforce conditional virtual parameters need to match their DMX ranges exactly
- EOS-47881  Add [Displays + Record] Shortcut to log a diagnostic message
- EOS-47874  Fixture Editor: Add Category column in editor to show parameter type
- EOS-47870  Fixture Editor: Cell fixtures should be nested under their parent MC fixtures; cells without a parent should be nested in their own category at the bottom
- EOS-47863  Snapshots: Recalled Column Widths Are Inconsistent
- EOS-47861  It should be possible to store effects properties that are changeable on a per cue basis using update cue only/track in live or cue only/track in blind
- EOS-47841  File->New doesn’t clear search favorites
- EOS-47840  Effects should not be recorded into presets unless you press [Plus FX]
- EOS-47831  Firmware Update Reboot Message Unclear For Peripherals
- EOS-47829  Improve EOS File Transfer Performance
- EOS-47822  In Patch, deleting the source channel, or changing the fixture type of a by-type palette is not transferring the data to the next channel of the same type
- EOS-47812  CIA: Allow Some CIA Displays to Resize The CIA To 2/3 the Screen Size
- EOS-47808  Some firmware versions are not reported at bootup, update dialog is missed
- EOS-47803  XP Element Facepanels (1.1.0) will always pop the firmware advisory dialog
- EOS-47801  Fixture Editor: Add Save/Cancel buttons for edits to fixtures
- EOS-47797  Effects: Store effects in specific cue parts
- EOS-47783  Show control events like SubDown (UDP), /eos/sub/v/fire=1.0 (OSC), magic sheet sub buttons, and Show Control List Sub Down events are acting as a toggle if repeatedly sent
- EOS-47779  Shell: If Gadget I or old I/O card is selected in the Detected Modules list, display a message for the user to click Update I/O Firmware
- EOS-47778  Fixture Editor: Support editing multicell definitions
ETC Release Note
Eos Family Software v2.8.0

Issues Corrected in v2.8.0 [Continued]

EOS-47773  Multicell: changing to a MC fixture does not copy color into cells
EOS-47767  Add About GUI for Response Analog IO GW Relay Status.
EOS-47760  (About) in the Output Viewer Tab always locks command line to Address even when out of focus
EOS-47753  Effects: Live and blind display different size for effect that tracks but shares no channels with previous cue
EOS-47748  Pressing Follow 3 times posts follow to command line, but acts as a hang command
EOS-47741  Magic Sheets: Add delete unused images button
EOS-47730  Magic Sheet: Button w/ User Target does not change User
EOS-47716  Feedback : Support EACP 2.0.X and ERP 3.1.0 ACN Errors
EOS-47684  PSD: Locked Split Cuelists Will Force Bottom Cuelist To Jump When Settings Are Edited
EOS-47675  Magic Sheet: Target entry field allows invalid entries (macros, users, cue parts, fader buttons)
EOS-47661  Pixel Map editing is ended when another user changes something in Patch
EOS-47628  Changes to indicate which Encoder is expanded
EOS-47595  ETC made keyboards won't do double press on launch of Eos
EOS-47572  OSC: Parameters are only sent and updated for the first channel in a selection, even if using next/last to change active item/ subgroup in selection
EOS-47533  Fixture Editor: Setting an intensity parameter is not automatically making it master color parameters
EOS-47521  Cannot remap the master fader in tab 36 to be a cue list if empty - the target button is grayed out and can't be used to assign the CL
EOS-47511  Fixture Editor Improvements
EOS-47493  PixMap: Assigning a cell as a layer channel doesn't display the channel in cell format in tab 9
EOS-47468  The default setting for encoders on all platforms should be Flexi Enabled
EOS-47462  It is not possible to call Flexi Encoders on devices with the virtual encoder display
EOS-47456  MC: [chan 1 cell 2 + + ] should post [Chan] to start new channel
EOS-47455  MC, Subgrouping: "A Cell 1 + B Minus Cells" interpreted as B Minus Cells
EOS-47447  Online Manual and Translation Content must support a standalone update process
EOS-47396  Fixtures should not have Null parameters auto-inserted in the middle of the fixture
EOS-47393  Multicell: add syntax [Chan X cell - Y] to select all cells except cell Y
EOS-47377  Add Keyboard Layouts for Portuguese and American International
EOS-47333  Fixture Editor: Assigning parameter to be a Control channel will always only change parameter #1 in the list, not the selected parameter
EOS-47323  OSC: Magic sheet buttons that send OSC do not send to TCP clients, only UDP clients
EOS-47314  OSC: Intensity ranges are not clipped (negative intensity possible)
EOS-47247  Snapshot list: Selecting snapshot and pressing {Favorite} SK will not change favorite and lose the snapshot
EOS-47239  Tab 100/Manual should not say it is temporarily disabled if it's on an allowed platform but missing files
EOS-47219  Chan x [Category] and then clicking on a parameter in the table adds all params for show in category rather than channel x's params
EOS-47217  Add an option to the PSD config menu to suppress the Follow/Hang arrow/inset indication for non-called cues.
EOS-47156  Patch: Types in Show: only include whole channel’s type, not its cell's types
EOS-47132  SFW Bumps are Lit Green instead of Red in Channel Mode
EOS-47120  Wake-On-LAN packets are sent to UDP port 0 instead of port 9
EOS-47093  LW Import [Link Devices] and [Unlink Devices] buttons are partially hidden
EOS-47080  When [Data] is toggled whole number level should end in .0
EOS-47055  Command Line Search: Chan X + Search = Syntax error
EOS-46950  Shell: Duplicate IP addresses are not indicated anywhere.
EOS-46931  Scaled park can overflow when channel should be maxed out
EOS-46898  It should be possible to click Patch - -> Type to view the fixture library (and manage favorites)
EOS-46846  Patch - Copy To with multiple multicell channels assigns some channels as masters and others as cells
EOS-46839  Flexi channels that don’t show the root cell of a multicell fixture are sometimes missing the left side of the first tombstone
EOS-46816  It should be possible to use text search on the command line to search for effects by label.
EOS-46802  Fixture editor: Modes: Add conditions to parameters level ranges
EOS-46769  Some Fixtures with Multiple Functions on a Single Wheel Do Not Get the Proper Images
EOS-46705  Fader Config: Shouldn’t be able to set ID of unmapped faders
ETC Release Note
Eos Family Software v2.8.0

Issues Corrected in v2.8.0 [Continued]

EOS-46645 Lightwright Import at client consoles with overwrite checked does not overwrite at master, causing out of sync state
EOS-46544 Multicell: [chan n cell thru] and [chan n cell y thru] should autoinsert first or last cell number
EOS-46536 Patch: Search: Pressing Add Show should not exit the Search function or give Syntax Error
EOS-46530 Multicell: Magic sheets: it should be possible to create an object for chan x.0 that only selects the master cell.
EOS-46508 PDF: Setup Reorganization Should Be Reflected in the PDF
EOS-46471 ETC Virtual fixtures show a DMX footprint in patch selection and addresses can be assigned.
EOS-46450 Global effect fader 2x and 3x faders always blink on non-motorized fader wings
EOS-46402 About Lamp Controls: organize lamp controls using alpha number sort
EOS-46303 Multicell Displays in Tombstone View changes
EOS-46291 Patch Display: Selecting a Type should use the most recent method (search, manufacturer, or show)
EOS-46205 Fixture Editor: Make Parameters Searchable
EOS-46172 Multicell: Flexi [masters off] breaks MC Line Wrap
EOS-46162 IM Intensity Master Subs with FX starting running FX on boot up
EOS-46050 ML Controls - Clicking mode attribute after clicking parameter tile selects a channel rather than applies DMX value
EOS-45974 Effects are able to be run on intensities of channels without intensity parameters
EOS-45845 Fixtures with Half Slot Wheels Cause Broken Control in non-Half Slot Modes
EOS-45843 Fixture Parameter Modes Are Displayed on a Separate Encoder
EOS-45845 Multicell: Patch Search Display: add params for each cell to search’s preview window
EOS-45843 Response Analog Widget : Add support
EOS-45779 Setup: Local IO: Local DMX: Changing Port Address Assignments
EOS-45725 Snapshot: Open new tabs in this frame isn’t saved in snapshot
EOS-45694 Support multicell fixtures in ASCII Export/Import
EOS-45482 Setup: Changing User Id in setup should not post to the command line
EOS-45248 [Delete Unused] or (File) [New] does not always Clear Fixture List with older show files.
EOS-45144 OSC - /eos/out/event/cue/<cue list number>/<cue number>/fire doesn’t send when a custom OSC Cue Send String is set
EOS-45021 Resetting all displays can repaint the Command line behind the fader status display.
EOS-44888 Update LED Brightest and Spectral Match Conversion Code
EOS-44658 A newly reset split PSD display will snap top split to smallest possible height on tab refresh or move
EOS-44504 Timecode display colour needs to update on internal/external source change.
EOS-44245 OSC Messages aren’t all sent via TCP
EOS-44046 A change in the primary monitor resolution doesn’t update shell size
EOS-44024 Split PSD can hide a cue list when CL executes CL2.
EOS-43999 CSV Export: default Cue time not written
EOS-43889 Magic sheets: Button with fader objects assigned don’t pull labels
EOS-43608 Ion XE/SFW/UFW: Can’t unload a GM using [shift+bump+group/assert]
EOS-43281 Store Sensor and RDM errors in a separate log file
EOS-43029 Snapshots - Issues labeling Snapshots in the same command line that records them
EOS-42980 Mark does not occur, if cue that fades intensity up has a delay and autofollows before mark cue fades out
EOS-42638 Cue list with Exclude:Record prevents Recall From and Copy To in Live between channels
EOS-42577 Recognize UDP strings as properly formatted OSC-style strings
EOS-42325 Expanded Channel display shows preview information in table view, should only show it in tombstone view
EOS-41626 Improve Best Spectral Match
EOS-40340 Make Gio_Encoder_Display an available Softkey in Macro Editor
EOS-40092 Print to PDF: Advanced Cue filtering still prints other cue lists’ names with no data
EOS-39572 Add an option to the Notes display in the PSD to view the note for the pending cue rather than the active one.
EOS-39519 [Query @ level] can post a channel range that includes channels outside the current partition.
EOS-37525 Lightwright Import - Allow multiple LW text fields to be mapped to a label
EOS-36920 Lightwright Import : allow individual selection of database information
EOS-36347 Lightwright import, fixture match enhancements
EOS-32924 Add a Magic Sheet option for “Limited Expanded” Mode
EOS-32257 Channels/addresses in use via a pixel map should respect patch attributes proportion and curve
EOS-31925 Enhanced OSC Group commands
ETC Release Note
Eos Family Software v2.8.0

Issues Corrected in v2.8.0 [Continued]

- EOS-31473 Improve CMY Color Translation and Gel Matching
- EOS-29136 A partial load or partial merge including a Magic Sheet should only import the images needed to support that magic sheet
- EOS-28684 Shell - Network tab no longer auto-updates NIC status (Online/Offline)
- EOS-28370 Should be able to direct UDP and OSC commands to multiple destinations
- EOS-28209 When no channels are selected ML controls, parameter tiles and encoders should not display parameters outside of your partition
- EOS-27922 Shell: Crash on empty device name
- EOS-27148 [Shift + Escape] to lock desk can’t be learned into a macro
- EOS-26516 Fixture editor changes and [update lib], should preserve current native DMX levels in show, instead of user levels
- EOS-24493 Magic Sheets - Magic Sheet button text labels should word wrap like Direct Selects
- EOS-23974 Magic Sheets - line weight drop-down menu should highlight the current line weight
- EOS-23913 Magic Sheets - disable font color selection for text that changes dynamically according to Eos color rules
- EOS-23263 Shell - add [Browser] and [Displays] hard keys to button mapping
- EOS-22682 Channel Direct Selects should only show patched channels when flexi direct selects is enabled
- EOS-21798 Magic Sheets: when holding shift drag-selection should preserve channel ordering
- EOS-17653 PDF printout should show decimal places for data where appropriate
- EOS-17605 Provide a prompt to "save showfile" when there is unsaved data in a show and the user attempts to open a "file new" or open a different file

Known Issues Remaining in v2.8.0

- EOS-47654 ASCII Export/Import: include Fader Configuration
- EOS-46239 Multicell: Port/Offset patching should be allowed across a universe boundary, and should not move the patch of a Multicell MC
- EOS-44256 CSV Export/Import: Cue “At Release” attribute missing
- EOS-43750 CSV Export/Re-Import: issue with cue FCB times
- EOS-43194 Mobile RFR - Display issues with Landscape mode
- EOS-43096 Can’t assign targeted macro to a device whose name starts with a minus
- EOS-42765 Mac: Add the ability to save logs from the main Eos app, without having to exit to the shell - for Mac as well
- EOS-40342 Add high DPI support to Eos to support 4K/QHD and other high-resolution formats
- EOS-40235 Magic Sheet: Macro buttons cannot be assigned a Target# higher than 9999
- EOS-39659 Shutter controls cover up encoders when expanded
- EOS-39541 The master fader in the PSD fader ribbon doesn’t display the filter icons
- EOS-38146 Enhanced Hold Color Point functionality
- EOS-30823 After backup transfers to master, "Save" no longer remembers show file name

Workaround: Save using the "Save As" function instead

- EOS-30257 Captured channels manual effects not recording into existing sub
- EOS-29871 When editing a scroll, the blank space to the right of the scroll bar can select a gel
- EOS-29752 Rate overrides less than 10 running too slow
- EOS-29708 Print to file will crash if there isn’t enough space available
- EOS-29193 [Magic Sheet 1 Copy To Magic Sheet] resets the command line, [Magic sheet 1 CopyTo 2] does not
- EOS-29155 Macro that turns on/off the internal SMPTE clock doesn’t work in the show control display

Workaround: Set the macro mode to Background.

- EOS-28654 When manually starting and stopping an effect, we should be using the entry/exit time to control the fade in and out.
- EOS-27991 Undo selection does not properly track to different devices of the same user.
- EOS-27983 Undoing manual values snap to prev level instead of using Manual time in setup
- EOS-27506 Scrollers and gobos in encoder should darken Next/Last buttons when in first or last frame.
- EOS-26147 When shutter strobe is marking, intensity outputs nonzero value output strobe

Workaround: The user can either Disable automark on that cue, or put the shutter mode change in a follow cue.

- EOS-20943 Element unable to change Sub pages via a Macro. Multikey press is not learned.
- EOS-16827 Snap Intensity Params are fading on timed HTP sub bump
ETC Release Note
Eos Family Software v2.8.0

Known Issues Remaining in v2.8.0 [Continued]

EOS-11798  Build Step effect with Stop/Hold exit, stops at off states, not on states
EOS-11727  Multiple Cue List PSD doesn’t allow paging of bottom cue list

Compatibility

ACN

The software is compatible with all Net3™ products that meet or exceed ESTA ratified standard ANSI E1.17 2006 Architecture for Control Networks (ACN) and ANSI E1.31 Streaming ACN (sACN).

ETCNet2 Network Compatibility

This release is compatible for the exchange of EDMX and/or configuration information with the following ETC hardware and software:

• Eos Family Lighting Control System - Version 1.0.0 and later software.
• Cobalt Family Lighting Control System - Version 4.0.0 and later software.
• Emphasis Control System - Version 1.4.0 and later software.
• Obsession II Control System - Version 5.1.x software.
• Network Configuration Editor (NCE) - Version 4.x.x and later software.
• Net3 Four Port Gateway (ETCNet2 mode) - Version 4.0.0 and later software.
• ETCNet2 DMX Node - Version 4.0.6 and later software.
• ETCNet2 Two Port Node - Version 4.1.4 and later software.
• Unison - Version 1.9.x software.

Incompatibility

Eos v2.8.0 is incompatible with hardware and software running ETCNet2 software prior to those listed above.

CAUTION: Eos ETCnomad (Mac and PC) and Puck do not support ETCNet2 protocol. See the Incompatibility section.

Software Versions that are compatible with DHCP servers:

• ETCNet2 DMX Node (4.0.6)
• ETCNet2 Two Port Node (v4.1.4)
• ETCNet2 Video Node (v4.0.2)
• Net3 Four Port Gateway (ETCNet2 mode v4.0.3 or later)

Eos v2.8.0 is incompatible with hardware and software running ETCNet1.

Eos ETCnomad (Mac and PC) and Puck are incompatible with hardware and software running ETCNet2 protocol.
Installation Instructions

For new Eos Family consoles, ETC has implemented a method to include the latest software installers directly on the console’s hard drive when they initially ship from ETC. For future releases, you will need to download the Eos Family software from the ETC website, etcconnect.com.

Note: All processors on the Eos Family network must be running the same version of software. Therefore, you must also update all RVIs and RPUs when you update your console.

Installer Archive

To check to see if a newer version of Eos software is available on your console, navigate to ECU>Settings>General>Software Update.

When the software update window launches, it will show you the available Eos versions found.

If there is an available update and you wish to install it, follow the on screen steps for updating the console’s software.

The Installer Archive can also be used to save multiple software versions onto your console’s hard drive in case you wish to downgrade.

Software Installation

To update your console or offline software to the v2.8.0 release, you will need to download it from the ETC website, unzip the file, load it to a USB device, and then transfer it to your console from the USB port using the Eos Configuration Utility (a.k.a. Eos Shell).

To update your console to v2.8.0:

1: Download the software from the ETC website, etcconnect.com, on the appropriate product page.
2: Unzip the file.
3: Transfer the unzipped file to a USB memory device.
4: Insert the USB device containing the software into an available USB port on the console.
5: Open the Eos Configuration Utility (ECU - Also known as the Eos Shell) either by exiting the Eos Family software (Browser>Exit) or by starting up the console and clicking on the {Launching in...} button. The ECU screen will open.
6: Click on the {Settings} button. The settings window will open.
7: Click on the {General} button inside of the settings window. The general settings will appear in the window.
8: Scroll down in the window until the {Software Update...} button is visible. Click this button.
9: This scans the root directory of all available drives (USB drives) for valid installers.
10: When the “Update Software” dialog pops up, click on ETC_EosFamily_Console_v2.8.0.92, then click {Install}.
11: The software will copy to the hard drive before launching a standard Installshield application to direct you through the install.
12: Click {Next} to start the installation process.
13: Read and accept the terms of the license agreement and click {Next}.
14: A dialog box will open warning of losing show data if not saved to disk. Click {Yes} to continue. The console will install the software.
15: Click {Finish} to complete the installation process. The console will automatically reboot and then enter the ECU welcome screen.

Note: All processors on the Eos Family network must be running the same version of software. Therefore, you must also update all RVIs and RPUs when you update your console.
Help Pack

To update your console or offline software to a new revision or translation of the manual, you will need to download a help pack from the ETC website, load it to a USB device, and then transfer it to your console from the USB port using the Eos Configuration Utility (a.k.a. Eos Shell).

Note: The help pack needs to be installed after any new software installation.

To install a help pack:

1. Download the pack from the ETC website, etcconnect.com, on the appropriate product page. The help pack may also be bundled with software.
2. Transfer the zipped file to a USB memory device.
3. Insert the USB device containing the file into an available USB port on the console.
4. Open the Eos Configuration Utility (ECU - Also known as the Eos Shell) either by exiting the Eos Family software (Browser>Exit) or by starting up the console and clicking on the {Launching in...} button. The ECU screen will open.
5. Click on the {Settings} button. The settings window will open.
6. Click on the {General} button inside of the settings window. The general settings will appear in the window.
7. Scroll down in the window until the {Software Update...} button is visible. Click this button.
8. This scans the root directory of all available drives (USB drives) for valid files.
9. When the “Update Software” dialog pops up, click on the zip file, then click {Install}.
10. When the installation is complete, click the {Close} button.

ETCnomad (Client/Offline) Software

For system requirements and installation instructions for Windows and Mac clients, please see the ETCnomad Setup Guide.

Firmware Updates

If the firmware on your device(s) is out of date, you will receive a notification before the Eos application launches that informs you of which firmware versions need updating. To update your firmware, go to ECU>Settings>Maintenance>Firmware Update. For additional information on updating firmware, please see the ECU chapter of your console’s manual.

The following table shows the current firmware versions.

WARNING: A restart of the console is required for every module updated.

Note: Single DMX port Gadgets and devices with IO cards that have a Phone Remote connection must use the {Upgrade I/O Firmware} button in the Maintenance tab of the ECU. Other IO cards and Gadget II can be updated using the firmware update window.

<table>
<thead>
<tr>
<th>Desk</th>
<th>Module</th>
<th>Current Firmware Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>Element Face Panel Board Firmware</td>
<td>1.1.90.Build 6 XPE / 1.2.90 Build 7 for WES7*</td>
</tr>
<tr>
<td></td>
<td>FS I/O Board Firmware</td>
<td>1.4.2.9.0.5</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.0.9.0.4</td>
</tr>
<tr>
<td>Desk</td>
<td>Module</td>
<td>Current Firmware Version</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Eos</td>
<td>Eos 1x5 Button Module</td>
<td>1.3</td>
</tr>
<tr>
<td>Eos</td>
<td>Eos Encoder Rev A:</td>
<td>1.7</td>
</tr>
<tr>
<td>Eos</td>
<td>Eos Keyboard Rev C:</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>100mm Motorized Fader Rev D:</td>
<td>1.4 (or) 2.0</td>
</tr>
<tr>
<td>Eos RPU</td>
<td>Eos RPU Front Panel</td>
<td>1.0</td>
</tr>
<tr>
<td>Gio</td>
<td>Gio Fader Board Firmware</td>
<td>1.1.0.9.0.3 (1.1.9 build 3)</td>
</tr>
<tr>
<td></td>
<td>Gio Face Panel Board Firmware</td>
<td>1.2.0.9.0.0 (1.2.9 build 0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>1.0.2.9.0.7</strong> (Enhanced Hardware Only)</td>
</tr>
<tr>
<td></td>
<td>Gio 6x2 Button Board Firmware</td>
<td>1.1.0.9.0.1 (1.1.9 build 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.1.0.9.0.2 (Enhanced Hardware Only)</td>
</tr>
<tr>
<td></td>
<td>FS I/O Board Firmware</td>
<td>1.4.2.9.0.5</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td>Ion</td>
<td>Ion Face Panel Revision F:</td>
<td>1.3</td>
</tr>
<tr>
<td></td>
<td>FS I/O Board Firmware</td>
<td>1.4.2.9.0.5</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td>Eos Motor Fader Wing 10/20</td>
<td>Display HS Universal Firmware</td>
<td>1.0.4.9.0.21</td>
</tr>
<tr>
<td>RVI</td>
<td>Eos RPU Front Panel</td>
<td>1.0</td>
</tr>
<tr>
<td>Ion Xe</td>
<td>Eos Playback Master Firmware</td>
<td>1.0.2.9.0.7</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
<tr>
<td></td>
<td>HS Face Panel Board Firmware</td>
<td><strong>1.0.2.9.0.7</strong></td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td>Ion Xe RPU</td>
<td>10x2 Button Module Firmware</td>
<td>1.1.0.9.0.1</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td>Eos Standard Fader Wing 20/40</td>
<td>Eos Fader Wing Firmware</td>
<td>1.0.3.9.0.13</td>
</tr>
<tr>
<td>Ion RPU</td>
<td>Eos RPU Front Panel</td>
<td>1.0</td>
</tr>
<tr>
<td></td>
<td>FS I/O Board Firmware</td>
<td>1.4.2.9.0.5</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td>RPU3</td>
<td>Ti 10x2 RPU Button Board Firmware</td>
<td>1.1.0.9.0.1</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
<tr>
<td></td>
<td>FS I/O Board Firmware</td>
<td>1.4.2.9.0.5</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
</tbody>
</table>
## ETC Release Note

### Eos Family Software v2.8.0

<table>
<thead>
<tr>
<th>Desk</th>
<th>Module</th>
<th>Current Firmware Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>RV13</td>
<td>Ti 10x2 RPU Button Board Firmware</td>
<td>1.1.0.9.0.1</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
<tr>
<td>Ti</td>
<td>Fader Board Firmware</td>
<td>1.1.0.9.0.3 (1.1.9 build 3)</td>
</tr>
<tr>
<td></td>
<td>Face Panel Board Firmware</td>
<td>1.2.0.9.0.0 (1.2.9 build 0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.0.2.9.0.7 (Enhanced Hardware Only)</td>
</tr>
<tr>
<td></td>
<td>6x2 Button Board Firmware</td>
<td>1.1.0.9.0.1 (1.1.9 build 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.1.0.9.0.2 (Enhanced Hardware Only)</td>
</tr>
<tr>
<td></td>
<td>Ti 6x1 Button Board Firmware</td>
<td>1.1.0.9.0.1 (1.1.9 build 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.1.0.9.0.2 (Enhanced Hardware Only)</td>
</tr>
<tr>
<td></td>
<td>FS I/O Board Firmware</td>
<td>1.4.2.9.0.5</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
<tr>
<td>Eos Programming Wing</td>
<td>Eos Playback Firmware</td>
<td>1.0.2.9.0.7</td>
</tr>
<tr>
<td></td>
<td>Face Panel Board Firmware</td>
<td>1.2.0.9.0.0 (1.2.9 build 0)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.0.2.9.0.7 (Enhanced Hardware Only)</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td>Gio @ 5</td>
<td>Eos Fader Wing Firmware</td>
<td>1.0.5.9.0.22</td>
</tr>
<tr>
<td></td>
<td>Gio @5 Motor Fader Firmware</td>
<td>1.0.1.9.0.5</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.1.9.0.5</td>
</tr>
<tr>
<td></td>
<td>HS 6x2 Button Board Firmware</td>
<td>1.1.0.9.0.2</td>
</tr>
<tr>
<td></td>
<td>HS Face Panel Board Firmware</td>
<td>1.0.2.9.0.7</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td>Ion Xe 20</td>
<td>Eos Playback Master Firmware</td>
<td>1.0.2.9.0.7</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
<tr>
<td></td>
<td>HS Face Panel Board Firmware</td>
<td>1.0.2.9.0.7</td>
</tr>
<tr>
<td></td>
<td>HS I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td></td>
<td>Eos Fader Wing Firmware</td>
<td>1.0.3.9.0.13</td>
</tr>
<tr>
<td>Element 2</td>
<td>Face Panel Board Firmware</td>
<td>1.0.2.9.0.7</td>
</tr>
<tr>
<td></td>
<td>Element 2 Fader Board Firmware</td>
<td>1.0.1.7</td>
</tr>
<tr>
<td></td>
<td>I/O Board Firmware</td>
<td>1.1.1.9.0.5</td>
</tr>
<tr>
<td></td>
<td>Intelligent Power Board Firmware</td>
<td>1.0.2.9.0.6</td>
</tr>
</tbody>
</table>

**Note:** *For Elements that have Windows 7 installed but do not have firmware v1.2.90 or higher, please contact ETC Technical Services.*
Local RDM Firmware Update

New firmware is required for expanded functionality.
- Gadget - 1.4.2.9.0.5
- IO Card - 1.4.2.9.0.5

The new firmware is required for the use of Local RDM on any platform, and required for individual configuration of multiple IO devices on any platform.

Firmware can be updated from a console or PCs running Win7/8.1. Mac OS does not currently support firmware updates.

Dual NIC Update

This feature allows the console to be connected to two separate networks. Dual NIC is available on Eos Ti, Gio, and RPU3. For the second NIC to work fully, you must also install the ETC GCE Net3Svc v3.1 or higher. GCE is available for download from the ETC website (etcconnect.com). The new hardware for Ion, Element, Net3 RVI, and Ion RPU also include the dual NIC feature, but ship with GCE already installed.

Example applications:
- Support 2 separate Net3 Gateways, networks or sACN devices
- Support 2 separate networks (e.g., one sACN, one Artnet, or one sACN and one Network Attached Server)
- One network for 'output' devices (sACN, EDMX, Artnet…) and one network for controls an interfaces (Consoles, RPUs, Show control)
- One combined network and one limited traffic for wireless devices

Note: The two Ethernet ports must be configured to separate networks (subnets). For proper operation, the two ports must NOT be connected to the same physical network.

To enable the second network port

To configure the second Ethernet port on your console to match factory defaults, follow the instructions below. Otherwise, you may configure the second port to match your system requirements.

1: Open the Eos Configuration Utility (ECU - Also known as the Eos Shell) either by exiting the Eos Family software (Browser>Exit) or by starting up the console and clicking on the (Launching in...) button. The ECU screen will open.
2: Click on the (Network) button. The network window will open.
3: Set the IP address for port 2.
4: IP Address - 192.168.xxx.101
5: Subnet Mask - 255.255.0.0
6: Enable DHCP Service for Port 2.
7: Click (Accept). A reboot of the desk is required.
## Eos Family Lighting Control Software Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eos Family Console Main Application</td>
<td>2.8.0.92</td>
</tr>
<tr>
<td>ECU</td>
<td>2.7.4.5</td>
</tr>
<tr>
<td>XPe (Eos)</td>
<td>2.2.0.9.0.3</td>
</tr>
<tr>
<td>XPe (Eos with 2400 video card)</td>
<td>2.3.0.9.0.5</td>
</tr>
<tr>
<td>XPe (Eos RPU)</td>
<td>2.2.0.9.0.3</td>
</tr>
<tr>
<td>XPe (Eos RPU with 2270 video card)</td>
<td>2.3.0.9.0.2</td>
</tr>
<tr>
<td>XPe (Eos RPU w BCM motherboard)</td>
<td>2.4.0.9.0.4</td>
</tr>
<tr>
<td>XPe (Ion)</td>
<td>2.2.0.9.0.3</td>
</tr>
<tr>
<td>XPe (Ion with BCM motherboard)</td>
<td>2.3.0.9.0.3</td>
</tr>
<tr>
<td>XPe (Ion RPU)</td>
<td>2.2.0.9.0.3</td>
</tr>
<tr>
<td>XPe (Ion RPU with 2270 video card)</td>
<td>2.3.0.9.0.2</td>
</tr>
<tr>
<td>XPe (Ion RPU w BCM motherboard)</td>
<td>2.4.0.9.0.2</td>
</tr>
<tr>
<td>XPe (Element)</td>
<td>2.2.0.9.0.3</td>
</tr>
<tr>
<td>XPe (RVi)</td>
<td>2.5.0.9.0.1</td>
</tr>
<tr>
<td>XPe (RVi with 2270 video card)</td>
<td>2.5.0.9.0.1</td>
</tr>
<tr>
<td>XPe (RVi w BCM motherboard)</td>
<td>2.5.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Element 2)</td>
<td>1.0.0.9.0.3</td>
</tr>
<tr>
<td>Wes7 (Ion Xe)</td>
<td>1.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Ion Xe 20)</td>
<td>1.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Ion Xe RPU)</td>
<td>1.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Gio)</td>
<td>3.0.0.9.0.20</td>
</tr>
<tr>
<td>Wes7 (Gio UCB)</td>
<td>4.0.0.9.0.3</td>
</tr>
<tr>
<td>Wes7 (Gio @ 5)</td>
<td>1.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Eos Ti)</td>
<td>1.0.0.9.0.10</td>
</tr>
<tr>
<td>Wes7 (Eos Ti UCB)</td>
<td>2.0.0.9.0.3</td>
</tr>
<tr>
<td>Wes7 (RPU3)</td>
<td>3.0.0.9.0.20</td>
</tr>
<tr>
<td>Wes7 (RPU3_Q87)</td>
<td>4.0.0.9.0.1</td>
</tr>
<tr>
<td>RPU3_Q87 BIOS</td>
<td>R1.1 (V00X1M11)</td>
</tr>
<tr>
<td>Wes7 (RV3)</td>
<td>3.0.0.9.0.20</td>
</tr>
<tr>
<td>Wes7 (RV3 Q87)</td>
<td>4.0.0.9.0.1</td>
</tr>
<tr>
<td>RV3_Q87 BIOS</td>
<td>R1.1 (V00X1M11)</td>
</tr>
<tr>
<td>Wes7 (Aaeon Element)</td>
<td>7.0.0.9.0.2</td>
</tr>
<tr>
<td>Wes7 (Aaeon Ion)</td>
<td>7.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Aaeon Ion RPU)</td>
<td>7.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Aaeon RVi)</td>
<td>7.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Puck)</td>
<td>1.0.0.9.0.1</td>
</tr>
<tr>
<td>Wes7 (Puck2)</td>
<td>2.0.0.9.0.1</td>
</tr>
<tr>
<td>ACN Libraries</td>
<td>2.2.0.2</td>
</tr>
<tr>
<td>ETCNet2</td>
<td>4.0.19.9.0.1</td>
</tr>
<tr>
<td>Network Common</td>
<td>2.2.0.5</td>
</tr>
<tr>
<td>Fixture Library</td>
<td>2.8.0.49</td>
</tr>
</tbody>
</table>